CD44 Antibody – Rat Monoclonal

PRODUCT OVERVIEW

Product Name	CD44, Monoclonal Antibody
Full Product Name	CD44 antibody (Spectral Red)
Product Gene Name	anti-CD44 antibody
Product Synonym Names	Monoclonal CD44; Anti-CD44; H-CAM; CD 44; CD-44; CD44; HCAM; Cluster of differentiation 44; Pgp1; MGC10468; MDU2; phagocytic glycoprotein 1; MDU3; MIC4; CSPG8; LHR; CD44 antigen; Hermes antigen; IN
Clonality	Monoclonal
Isotype	IgG1
Clone Number	KM201
Host	Rat
Species Reactivity	Murine CD44
Form/Format	Supplied as a liquid in PBS, with NaN3 added as preservative.
Concentration	0.1 mg/ml (lot specific)
Specificity	Murine CD44
Preparation and Storage	Store at 4 degree C.
Molecular Weight	85,918 Da
3D Structure	ModBase 3D Structure for O08779
Biohazard Information	This product contains sodium azide as preservative. Although the amount of sodium azide is very small appropriate care must be taken when handling this product.
Tag/Conjugate	Spectral Red
Immunogen	CD44 antibody (Spectral Red) was raised in rat using murine CD44 as the immunogen.
Product Categories/Family for anti-CD44 antibody	Differentiation & Development; Conjugated Monoclonal Antibodies
Applications Tested/Suitable for anti-CD44 antibody	Flow Cytometry (FC/FACS)
Related Product Information for anti-CD44 antibody	MBS531967 is an antibody targeting CD44. Also known as CD44 antibody (Spectral Red). Reactive in Murine CD44. Host: Rat. Rat monoclonal CD44 antibody (Spectral Red)
Other Notes	Small volumes of anti-CD44 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD44. It may not necessarily be applicable to this product.

NCBI GI #	19923703
NCBI GeneID	25406
NCBI Accession #	NP_037056.2

UniProt Primary Accession #	O08779
UniProt Related Accession #	P26051
GenBank Nucleotide #	NM_012924.2
NCBI Official Full Name	CD44 antigen
NCBI Official Synonym Full Names	CD44 molecule (Indian blood group)
NCBI Official Symbol	Cd44
NCBI Official Synonym Symbols	CD44A; METAA; RHAMM
UniProt Protein Name	CD44 protein
UniProt Synonym Protein Names	CD44 protein
Protein Family	CD44 antigen
UniProt Gene Name	Cd44
UniProt Entry Name	O08779_RAT
NCBI Protein Information	CD44 antigen
NCBI Summary for CD44	adhesion molecule involved in migration, cell fusion and resportion in osteoclasts that also plays a role in cellular metastasis [RGD, Feb 2006]
UniProt Comments for CD44	CD44: Receptor for hyaluronic acid (HA). Mediates cell-cell and cell-matrix interactions through its affinity for HA, and possibly also through its affinity for other ligands such as osteopontin, collagens, and matrix metalloproteinases (MMPs). Adhesion with HA plays an important role in cell migration, tumor growth and progression. Also involved in lymphocyte activation, recirculation and homing, and in hematopoiesis. Altered expression or dysfunction causes numerous pathogenic phenotypes. Great protein heterogeneity due to numerous alternative splicing and post-translational modification events. Interacts with PKN2. Interacts with HA, as well as other glycosaminoglycans, collagen, laminin, and fibronectin via its N-terminal segment. Interacts with ANK, the ERM proteins (VIL2, RDX and MSN), and NF2 via its C-terminal segment. Isoform 10 (epithelial isoform) is expressed by cells of epithelium and highly expressed by carcinomas. Expression is repressed in neuroblastoma cells. 19 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Receptor, misc.; Motility/polarity/chemotaxis; Cell adhesion Cellular Component: Golgi apparatus; cell surface; protein complex; focal adhesion; basolateral plasma membrane; cytoplasm; apical plasma membrane; plasma membrane; integral to membrane; nucleus; external side of plasma membrane Molecular Function: hematopoietin/interferon-class (D200-domain) cytokine receptor activity; protein binding; transmembrane receptor activity; cytokine binding; hyaluronic acid binding; phosphoprotein binding; protein kinase binding; hyaluronoglucosaminidase activity; epidermal growth factor receptor binding Biological Process: cell migration; positive regulation of heterotypic cell-cell adhesion; Wnt receptor signaling pathway; positive regulation of neutrophil apoptosis; negative regulation of caspase activity; response to organic cyclic substance; positive regulation of peptidyl-serine phosphorylation; blood vessel maturation; response to vitamin A; hyaluronan catabolic process; negative regulation of DNA damage response, signal transduction by p53 class mediator; positive regulation of peptidyl-tyrosine phosphorylation; negative regulation of mature B cell apoptosis; ureteric bud branching; cartilage development; regulation of cell growth; inflammatory response; cell adhesion; healing during inflammatory response; neurite development; negative regulation of apoptosis
Research Articles on CD44	**1.** Data show that hyaluronan receptor CD44 undergoes co-internalization with hyaluronan endocytosis.
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